

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

AI 1. (Currently amended) A multiple layered non-PVC containing tubing comprising:
a first layer of a polymer blend of: (a) from about 25% to about 50% by weight of the first layer a first polyolefin selected from the group consisting of polypropylene and polypropylene copolymers, (b) from about 10 to about 50% by weight of the first layer a second polyolefin selected from the group consisting of ethylene copolymers, ultra-low density polyethylene, polybutene, polybutadiene and butene ethylene copolymers; (c) from about 10% to about 40% by weight of the first layer a radio frequency susceptible polymer selected from the group consisting of polyamides, ethylene acrylic acid copolymers, ethylene methacrylic acid copolymers, polyimides, polyurethanes, polyesters, polyureas, ethylene vinyl acetate copolymers with a vinyl acetate comonomer content from 12%-50% by weight of the copolymer, ethylene methyl acrylate copolymers with methyl acrylate comonomer content from 12%-40% by weight of the copolymer, ethylene vinyl alcohol with vinyl alcohol comonomer content from 12%-70% by mole percent of the copolymer; (d) from about 10% to about 40% of a first thermoplastic elastomer; and

a second layer disposed coaxially within the first layer and being a second thermoplastic elastomer.

2. (original) The tubing of claim 1 wherein the polyamide is selected from a group consisting of aliphatic polyamides resulting from the condensation reaction of diamines having a carbon number within a range of 2-13, aliphatic polyamides resulting from a condensation reaction of di-acids having a carbon number within a range of 2-13, polyamides resulting from the condensation reaction of dimer fatty acids, and amide containing copolymers.

3. (original) The tubing of claim 1 wherein the polyamide is a dimer fatty acid polyamide.

4. (Currently amended) The tubing of claim 1 wherein the first polyolefin is a propylene copolymerized with a monomer selected from the group consisting of α -olefins having from 2-17 carbons.

5. (original) The tubing of claim 4 wherein the first polyolefin is a propylene and ethylene copolymer having an ethylene content of from about 1% to about 8% by weight of the first polyolefin.

6. (original) The tubing of claim 1 wherein the first thermoplastic elastomer is selected from the group consisting of a first styrene and hydrocarbon copolymer.

7. (original) The tubing of claim 6 wherein the first styrene and hydrocarbon copolymer is selected from the group of polymers structures with diblock, triblock, radial block, and star block.

8. (original) The tubing of claim 7 wherein the first thermoplastic elastomer is a styrene-ethylene-butene-styrene block copolymer.

9. (original) The tubing of claim 7 wherein the first thermoplastic elastomer is functionalized with a group selected from the group consisting of carboxylic acid, esters of carboxylic acids, anhydrides of carboxylic acids, epoxides, and carbon monoxide.

10. (original) The tubing of claim 9 wherein the first thermoplastic elastomer is maleic anhydride functionalized.

11. (original) The tubing of claim 1 wherein the second thermoplastic elastomer is selected from the group consisting of a second styrene and hydrocarbon copolymer.

12. (original) The tubing of claim 11 wherein the second styrene and hydrocarbon copolymer is selected from the group of polymer structures with diblock, triblock, radial block, and star block.

13. (original) The tubing of claim 12 wherein the second thermoplastic elastomer is selected from the group consisting of a styrene-ethylene-butene-styrene copolymer, styrene-isoprene-styrene and styrene-ethylene-propylene.

14. (original) The tubing of claim 13 wherein the second thermoplastic elastomer contains styrene-ethylene-butene-styrene diblock copolymer and a styrene-ethylene-butene-styrene triblock copolymer.

Al 15. (original) The tubing of claim 1 wherein the second polyolefin is an ethylene copolymerized with a monomer selected from the group consisting of α -olefins.

16. (original) The tubing of claim 15 wherein the ethylene and α -olefin copolymer is obtained using a single-site catalyst.

17. (original) The tubing of claim 1 wherein the second layer further comprises an additive selected from the group consisting of polypropylene, high density polyethylene, silica, slip agents, fatty amides, and acrawax.

18. (original) The tubing of claim 17 wherein the additive is present in an amount by weight of the second layer from about 0% to about 20%.

19-111 (withdrawn)
